SPECIFIC STATION REQUIREMENTS FOR EL 079

This regulation establishes the procedures for station unique operations and analysis.

Distribution limited to DoD and DoD contractors only; to protect information and technical data which advance the state-of-the-art or describe new technology in an area of significant or potentially significant military application, 1 July 1987. Other requests shall be referred to HQ/DOSB.

- 1. Operating Concept. Normally, all operations and maintenance requirements are accomplished during the attended hours as determined by contractor management. All days are considered duty days. A complete equipment check is required at the beginning and end of the attended period.
- Station Designator. The station designator for Equipment Location 079 is JOEY.
- 3. Timing Standard is WWV.
- 4. Routine Calibrations. Commence SP calibrations immediately after 1330Z followed by the LP CALs. Perform the LPS frequency responses at the rate of one site per day.
- 5. Edit tape registration numbers are 5000 through 5099.
- 6. Outage authorized in Volume I, is granted for Monday of each week from 1500Z through 1800Z.
- 7. Analysis Requirements:
- a. The station is exempt from routine analysis and data reporting with the following exceptions:
- (1) Transmit data reports covering periods requested by the GSOC. Include in this report all events extending into, or continuing out of, the requested period.
- (2) If data request covers more than one ZULU day, a new computer function data line (BBBBBB JJJ JOEY (date) CMM PART ONE) will precede each day's data. If data are requested over an extended period of time, each data reporting period will cover 12 hours (0001 1200% and 1200 2400%).
- b. In addition to the above requirement, maintain a continuous capability to respond to review requests. Establish analysis and reporting exercises to insure analysis proficiency of personnel.
- c. Provide selected analysis periods to HQ for review to evaluate the station's analysis and reporting capability. Procedures are as follows:
 - (1) Analyze 1600 2000Z on the 15th day of each month.
- (2) Prepare a message (do not transmit) using correct format as specified in Volume I, and forward with the appropriate station log. Do not complete address elements.
- (3) It is not the intent of this program to limit the station's analysis and reporting exercises to 1 day a month. Accomplish analysis and reporting training on a continuing basis, and this program may be used to complement that training.
- 8. SPS Develocorder Presentations:
 - a. Primary:

TRACE	DATA	MAG
1	SZ1BP29216	2000K
2	SZ1BP31516	2000K
3	SZ1BP33716	2000K

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TRACE	DATA	MAG
4	SZ1BP36016	2000K
5	SZ1BP02216	2000K
6	SZ1BP04516	2000K
7	SZ1BP00099	2000K
8	SZ1BP15716	2000K
9	SZ1BP30314	2000K
10	SZCAP30314	2000K
11	SZ0AP02216	2000K
12	SZ1BP21124	2000K
13	SZ1132H	500K
b. Secondary:		
TRACE	DATA	MAG
1	SZ1119	500K
2	SZ1113	500K
3	SZ1110	500K
4	SZ1116	500K
5	SZ0AP30314	2000K
6	SZ0AP02216	2000K
7	SPARE	-
8	SZ1I32M	50K
9	SZ1132L	5K
10	SZ1I32H	500K
11	SN1I32H	500K
12	SE1132H	500K
9. LPS Develocorder Presentation:		
TRACE	DATA	MAG
1	LZ13P3603.5	100K
2	LZ18P0903.5	100K
3	LZ1BP1803.5	100K
4	LZ1BP2703.5	100K
5	LZ1ICH	50K*

LN1ICH

LE1ICH

LZ1ICL

6 7

8

50K*

50K*

 $[\]star$ Normally record data from LP site C on traces 5, 6, 7 and 8. Should site C fail, substitute any operable LP site.

10. STPR Designator/Channel Identifier Cross Reference.

STPR DESIGNATOR	CHANNEL ID	INPUT SENSITIVITY
SPRW01	SZ1101	4.88*
SPRW02	SZ1102	4.88*
SPRW03	SZ1103	4.88*
SPRW04	SZ1104	4.88*
SPRW05	SZ1105	4.88*
SPRW06	SZ1106	4.88*
SPRW07	SZ1107	4.88*
SPRW08	SZ1108	4.88*
SPRW09	SZ1109	4.88*
SPRW10	SZ1110	4.88*
SPRW11	SZ1111	4.88*
SPRW12	SZ1112	4.88*
SPRW13	SZ1I13	4.88*
SPRW14	SZ1114	4.88*
SPRW15	SZ1115	4.88*
SPRW16	SZ1116	4.88*
SPRW17	SZ1117	4.88*
SPRW18	SZ1118	4.88*
SPRW19	SZ1119	4.88*
SPRW20	SZ1132H	4.88*
SPRW21	SN1132H	4.88*
SPRW22	SE1132H	4.88*
SPRW23	SZ1132M	.488*
SPRW24	SZ1132L	.0488*
LPSC1Z	LZ1IA	5.7735
LPSCIN	LN1IA	5.7735
LPSC1E	LE1IA	5.7735
LPSC2Z	LZ1IB	5.7735
LPSC2N	LN1IB	5.7735

STPR DESIGNATOR	CHANNEL ID	INPUT SENSITIVITY
LPSC2E	LEIIB	5.7735
LPSC3Z	LZIIC	5.7735
LPSC3N	LNIIC	5.7735
LPSC3E	LEIIC	5.7735
LPSC4Z	LZIID	5.7735
LPSC4N	LNIID	5.7735
LPSC4E	LEIID	5.7735
LPSC5Z	LZ1IE	5.7735
LPSC5N	LNIIE	5.7735
LPSC5E	LEITE	5.7735
SPZ000	SZ1BP00099	N/A
SPQ360	SZ1BP36016	N/A
SPQ022	SZ1BP02216	N/A
SPQ045	SZ1BP04516	N/A
SPQ157	SZ1BP15716	N/A
SPQ292	SZ1BP29216	N/A
SP0315	SZ1BP31516	N/A
SPQ337	SZ1BP33716	N/A
SPQ02A	SZ0AP02216	N/A
SPN30A	SZ0AP30314	N/A
SPN303	SZ1BP30314	N/A
SPY211	SZ1BP21124	N/A
LPH36Z	LZ1BP3603.5	N/A
LPH09Z	LZ1BP0903.5	N/A
LPH18Z	LZ1BP1803.5	N/A
LPH27Z	LZ18P2703.5	N/A

- * Volts peak-to-peak for 100 millimicron equivalent DF measured at the output of the SCC.
- + Input sensitivities for the triaxial sensors are measured at the output of the SCC.

11. Channels to be transmitted to the GSOC:

CHANNEL ID	STPR DESIGNATOR
SZ1132H	SPRW20
SN1132H	SPRW21
SE1132H	SPRW22
SZ1132M	SPRW23

CHANNEL TO	
CHANNEL ID	STPR DESIGNATOR
SZ1 I 32L	SPRW24
SZ1BP00099	SPZ000
SZ1BP36016	SPQ360
SZ1BP02216	SPQ022
SZ1BP04516	SPQ045
SZ1BP15716	SPQ157
SZ1BP29216	SPQ292
SZ1BP21124	SPY211
SZ1BP31516	SPQ315
SZ1BP33716	SPQ337
SZ1109	SPRW09
SZ1111	SPRW11
SZ1114	SPRW14
SZ1117	SPRW17
LZ1BP3603.5	LPH36Z
LZ18P0903.5	LPH09Z
LZ1BP1803.5	LPH18Z
LZ1BP2703.5	LPH27Z
LZ1IC	LPSC3Z
LN1IC	LPSC3N
LETIC	LPSC3E
LZIIA	LPSC1Z
LN1IA	LPSC1N
LEIIA	LPSC1E
LZ1IB	LPSC2Z
LN1IB	LPSC2N
LEIIB	LPSC2E
LZIID	LPSC4Z
LZ1IE	LPSC5Z
PR Frequency Response Voltages and No	rmalizing Factors:

12. STPR Frequency Response Voltages and Normalizing Factors:

a. Short Period:

FREQ	STPR VOLTAGE	NORMALIZING FACTOR
1.0	1.708	1
0.5	1.708	1
0.8	1.708	1

FACTOR

FREQ	STPR VOLTAGE	NORMALIZING
1.5	1.708	1
2.0	1.708	1
2.5	1.708	1
3.0	1.708	1
4.0	1.708	1

b. Long Period:

FREQ	STPR VOLTAGE	NORMALIZING FACTOR
.0400	1.053	1
.1000	5.265	.2
.0667	1.053	1
.0500	1.053	1
.0333	1.053	1
.0250	1.053	1
.0200	1.053	1

* Reference Frequency

NOTE: To normalize the Frequency Response, divide the return voltage of each frequency by the return voltage at the reference frequency, then multiply by the normalizing factor. The results can then be compared to the table in paragraph 13 to determine if they are within tolerances.

13. Frequency Response Parameters for TRIAX W/30237 Telemetry Amplifiers.

Frequency (Hz)	.0200	.0250	.0333	.0400	.0500	.0667	.1000
Period (Sec)	50	40	30	25	20	15	10
Minimum	1.977	1.762	1.300	1.000	.4849	.1318	.0144
Nominal	2.471	2.073	1.444	1.000	.5388	.1648	.0192
Maximum	2.965	2.384	1.588	1.000	.5927	.1978	.0240

14. Ground Motion Table.

TRIAXIAL 30237 TEL	
Period (Sec)	GtT
10 11 12 13 14 15	.8354 .4854 .3269 .2385 .1831 .1457

TRIAXIAL SENSOR				
30237 TEL	E AMP			
Period (Sec)	1 Gt1			
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	.1169 .0962 .0807 .0688 .0594 .0545 .0502 .0464 .0430 .0400 .0384 .0370 .0356 .0344 .0322 .0328 .0324 .0321 .0318 .0315 .0315 .0310 .0309 .0309 .0309 .0309 .0309 .0310 .0311 .0313 .0315 .0311			

15. STPR CPU Configuration Parameters:

8,2.314,5.211

a. CPU1:

CONFIGURATION IDENTIFICATION = Cxxxx-1HS OPERATE1 IDENTIFICATION = OPERATE1 SITE IDENTIFICATION = 079 LP DATA AND INSTRUMENT TYPE (A,31,36) = A NUMBER OF SHORT PERIOD ARRAY CHANNELS = 19 NUMBER OF SHORT PERIOD OTHER CHANNELS = 5 NUMBER OF LONG PERIOD ARRAY CHANNELS = 15 NUMBER OF LONG PERIOD OTHER CHANNELS = 0 NUMBER OF SHORT PERIOD PROCESSES = 12 NUMBER OF LONG PERIOD PROCESSES = 4 SHORT PERIOD FREQUENCY FILTER LENGTH = 99 LONG PERIOD FREQUENCY FILTER LENGTH = 99 AMOUNT OF SHORT PERIOD TIME DELAY REQUIRED = 0 AMOUNT OF LONG PERIOD TIME DELAY REQUIRED = 0 SP COORDINATES: 0,3.844,-5.502 1,0.0,0.0 2,2.531,1.993 3,3.147,-1.565 4,0.366,-3.091 5,-1.996,-1.859 6,-2.714,1.402 7,-0.240,3.050

```
9,5.151,4.057
10,5.744,0.745
11,6.132,-2.807
12,3.646,-4.351
13,0.899,-6.438
14,-1.913,-5.061
15,-4.869,-3.704
16,-5.235,-0.399
17,-5.896,2.605
18,-3.202,4.087
19,-0.892,6.271
LP COORDINATES:
0,3.844,-5.502
1,0.082,9.607,T
2,15.324,10.269,T
3,3.843,-5.519,T
4,-14.816,7.298,T
5,-2.117,23.664,T
SP FREQUENCY FILTER PARAMETERS:
50
0.0001,-.0001,-.0005,-.0011,-.0016,-.0020,-.0020,-.0017,0.0014,-.0012
-.0011,-.0013,-.0014,-.0011,-.0004,0.0007,0.0019,0.0027,0.0030,0.0029
0.0027,0.0028,0.0034,0.0043,0.0050,0.0049,0.0038,0.0017,-.0007,-.0027
-.0037,-.0041,-.0045,-.0065,-.0103,-.0162,-.0221,-.0266,-.0273,-.0254
-.0224,-.0237,-.0315,-.0481,-.0653,-.0731,-.0456,0.0324,0.2035,0.3910
0.2035,0.0324,-,0456,-.0731,-.0653,-.0481,-.0315,-.0237,-.0224,-.0254
-.0273, -.0266, -.0221, -.0162, -.0103, -.0065, -.0045, -.0041, -.0037, -.0027
-.0007,0.0017,0.0038,0.0049,0.0050,0.0043,0.0034,0.0028,0.0027,0.0029
0.0030,0.0027,0.0019,0.0007,-.0004,-.0011,-.0014,-.0013,-.0011,-.0012
-.0014,-.0017,-.0020,-.0020,-.0016,-.0011,-.0005,-.0001,-.0001
LP FREQUENCY FILTER PARAMETERS:
0.0020,0.0023,0.0026,0.0028,0.0028,0.0025,0.0020,0.0016,0.0013,0.0011
0.0012,0.0013,0.0012,0.0007,-.0001,-.0012,-.0023,-.0032,-.0037,-.0040
-.0040, -.0043, -.0051, -.0066, -.0084, -.0104, -.0119, -.0127, -.0126, -.0122
-.0120,-.0128,-.0148,-.0180,-.0213,-.0237,-.0239,-.0218,-.0179,-.0148
-.0143, -.0197, -.0299, -.0435, -.0515, -.0456, -.0078, 0.0697, 0.2150, 0.3650
0.2150,0.0697,-,0078,-.0456,-.0515,-.0435,-.0299,-.0197,-.0143,-.0148
-.0179, -.0218, -.0239, -.0237, -.0213, -.0180, -.0148, -.0128, -.0120, -.0122
-.0126,-.0127,-.0119,-.0104,-.0084,-.0066,-.0051,-.0043,-.0040,-.0040
-.0037,-.0032,-.0023,-.0012,-.0001,0.0007,0.0012,0.0013,0.0012,0.0011
0.0013,0.0016,0.0020,0.0025,0.0028,0.0028,0.0026,0.0023,0.0020
SP BEAM PARAMETERS:
SPQ02A,0,22,16,A,31,0.08,1
SPN30A,0,303,14,A,31,0.08,1
SPZ000,0,0,0,B
SPQ360,0,0,16,B
SPQ022,0,22,16,B
SPQ045,0,45,16,B
SPQ157,0,157,16,B
SPY211,0,211,24,B
SPQ292,0,292,16,B
SPN303,0,303,14,B
SPQ315,0,315,16,B
SPQ337,0,337,16,B
LP BEAM PARAMETERS:
LPH36,1,0,3.5,B
LPH09,1,90,3.5,B
LPH18,1,180,3.5,B
LPH27,1,270,3.5,B
SPQ02A CONSTRAINTS:
0,0,0,0,0,0,0,0,0,0
0,0,0,0,0,1,0,0,0,0
0,0,0,0,0,0,0,0,0,0
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SPN30A CONSTRAINTS:
     15
     0,0,0,0,0,0,0,0,0,0
     0,0,0,0,0,1,0,0,0,0
     0,0,0,0,0,0,0,0,0
     O
     SP PROCESSING DELAY = 100
    LP PROCESSING DELAY = 58
     SECONDS PER RECORD = 3
    CPU2:
b.
    CONFIGURATION IDENTIFICATION = Cxxxx-2HS
    OPERATE2 IDENTIFICATION = OPERATE2
    SITE IDENTIFICATION = 079
    LP DATA AND INSTRUMENT TYPE (A,31,36) = A
    NUMBER OF SHORT PERIOD ARRAY CHANNELS = 19
NUMBER OF SHORT PERIOD OTHER CHANNELS = 5
NUMBER OF LONG PERIOD ARRAY CHANNELS = 15
NUMBER OF LONG PERIOD OTHER CHANNELS = 0
    NUMBER OF SHORT PERIOD PROCESSES = 12
    NUMBER OF LONG PERIOD PROCESSES = 4
    NO SP CHANNELS TO BE TRANSMITTED VIA HSM = 18
    NO LP CHANNELS TO BE TRANSMITTED VIA HSM = 15
    NUMBER OF CONTACT SENSOR MONITORS = 1
    NUMBER OF A/D CHANNEL CHANNEL MONITORS = 1
    AMOUNT OF SP EDIT TIME DELAY REQUIRED = O
AMOUNT OF LP EDIT TIME DELAY REQUIRED = O
    SP COORDINATES:
    0,3.844,-5.502
    1,0.0,0.0
    2,2.531,1.993
    3,3.147,-1.565
    4,0.366,-3.091
    5,-1.996,-1.859
    6,-2.714,1.402
    7,-0.240,3.050
    8,2.314,5.211
    9,5.151,4.057
    10,5.744,0.745
    11,6.132,-2.807
    12,3.646,-4.351
    13,0.899,-6.438
    14,-1.913,-5.061
    15,-4.869,-3.704
    16, -5.235, -0.399
    17,-5.896,2.605
    18,-3.202,4.087
    19,-0.892,6.271
    LP COORDINATES:
    0,3.844,-5.502
    1,0.082,9.607,T
    2,15.324,10.269,T
    3,3.843,-5.519,T
    4,-14.816,7.298,T
    5,-2.117,23.664,T
SP CALIBRATION DEFAULT PARAMETERS:
    0.833,1.0,25,1,133000,0.9,1.1,2.931,8
    1.0,1.708
    0.5,1.708
    0.8,1.708
    1.5,1.708
    2.0,1.708
    2.5, 1.708
    3.0,1.708
    4.0,1.708
    LP CALIBRATION DEFAULT PARAMETERS:
    1.2156,0.04,10,1,140000,0.9,1.1,2.375,7,3
    0.040,0.528
    0.100,5.264
    0.067,1.0528
```

0.050,1.0528

```
0.033,1.0528
0.025,1.0528
0.020,1.0528
SP CHANNEL CONFIGURATION FOR CALIBRATION SYSTEM:
1,1
2,1
9,1
1,2
1,3
1,4
2,2
2,3
2,4
9,2
9,3
9,5
1,7
1,8
2,6
9,6
9,7
9,8
9,6
9,6
LP CHANNEL CONFIGURATION FOR CALIBRATION SYSTEM:
5,1
5,1
5,1
5,2
5,2
9,1
9,1
9,1
2,1
2,1
2,1
5,3
5,3
5,3
SP BEAM PARAMETERS:
SPQ02A,0,22,16,A,31,0.08,1
SPN30A,0,303,14,A,31,0.08,1
SPZ000,0,0,0,B
SPQ360,0,0,16,B
SPQ022,0,22,16,B
SPQ045,0,45,16,B
SPQ157,0,157,16,B
SPY211,0,211,24,B
SPQ292,0,292,16,B
SPN303,0,303,14,B
SPQ315,0,315,16,B
SPQ337,0,337,16,B
LP BEAM PARAMETERS:
LPH36,1,0,3.5,B
LPH09,1,90,3.5,B
LPH18,1,180,3.5,B
LPH27,1,270,3.5,B
HIGH SPEED MODEM CONFIGURATION:
SPRW20, SPRW21, SPRW22, SPRW23, SPRW24, SPZ000, SPQ360, SPQ022, SPQ045, SPQ157
SPQ292, SPY211, SPQ315, SPQ337, SPRW09, SPRW11, SPRW14, SPRW17, LPH36Z, LPH09Z
LPH18Z,LPH27Z,LPSC3Z,LPSC3N,LPSC3E,LPSC1Z,LPSC1N,LPSC1E,LPSC2Z,LPSC2N
LPSC2E, LPSC4Z, LPSC4Z, LPSC5Z
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RELAY INDENTIFIERS AND NORMAL STATUS FOR EACH CONTACT SENSOR MONITOR: CNTAC1.1
IDENTIFIERS AND LIMITS FOR EACH A/D CHANNEL MONITOR:
LNPOWR,5.4,6.6
SECONDS PER RECORD = 1

OFFICIAL

SUMMARY OF CHANGES

Incorporated IMC 86-1 and 87-1. Added purpose statement. Added limited distribution statement. Deleted references to specific paragraphs in Vol I. Added TRIAX frequency response parameters and ground motion table. Added configuration parameters for CPU 1 and CPU 2.